Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

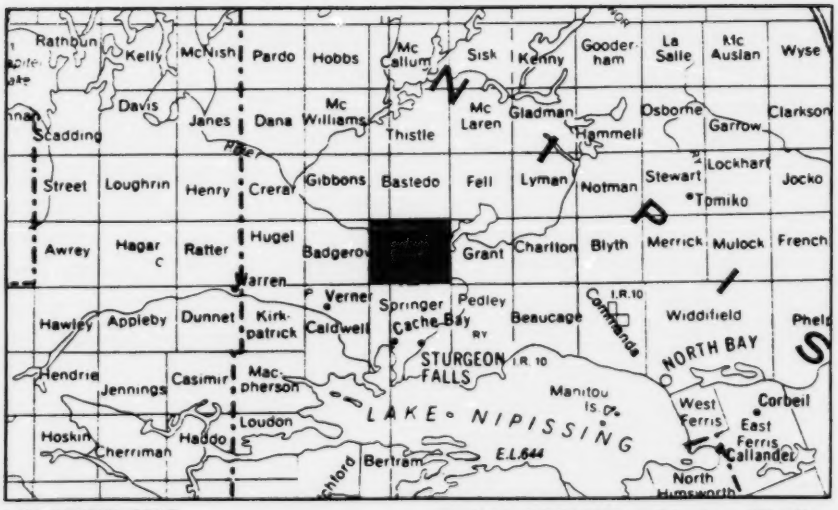
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 421

FIELD TOWNSHIP

DISTRICT OF NIPISSING

Complied by the Staff of the Resident Geologist's Office Sudbury



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

NTS Number 31 L/12

Mining Claim Map Number G-2840

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey

1987: Field Township, District of Nipissing; Ontario Geological Survey, Geological Data Inventory Folio 421, compiled by the staff of the Resident Geologist's office, Sudbury, 16p. and 2 maps.

Original Compilation by: Jerome, Lucille, June 1, 1987

Date	Page Revised	Revised by

Date	Page Revised	Revised by

FIELD TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map 1 map

Exploration Data Map 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

FIELD TOWNSHIP

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	L.J.
2	Assessment Files Research Office, Toronto	N.A.	L.J.
3	ODM General Index; 9 Volumes	Yes	L.J.
4	~~Catalogue of Airborne Geophysical Surveys~~ (ODM)	No	L.J.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	L.J.
6	ODM Industrial Mineral Reports	No	L.J.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	L.J.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	L.J.
9	Newspaper Clippings File	No	L.J.
10	GSC Index to Publications	Yes	L.J.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	L.J.
12	OGS Index Maps	Yes	L.J.
13	Source Mineral Deposit Records (O.G.S.)	No	L.J.
14	Author - Subject Articles File	Yes	L.J.
15	Miscellaneous Papers: ODM & OGS	Yes	L.J.
16	ODM Geological Circulars: OGS Study Series	No	L.J.
17	ODM Preliminary Reports: ODM Bulletins	No	L.J.
18	ODM – OGS Open File Reports	Yes	L.J.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	L.J.
20	OGS Aggregate Resources Inventory Papers	No	L.J.
21	OGS Mineral Potential Maps	Yes	L.J.
22	Theses on File, Sudbury	No	L.J.
23	Aerial Photographs on File, Sudbury	No	L.J.

FIELD TOWNSHIP

METALS AND MINERALS REFERENCES LIST

- Δ anh . . . . . Anhydrite
- Δ ank . . . . . Ankerite
- Δ anna . . . . . Annabergite
- Δ ap . . . . . Apatite
- Δ arg . . . . . Argentite
- Δ As . . . . . Arsenic
- Δ asp . . . . . Arsenopyrite
- Δ asb . . . . . Asbestos
- Δ ba . . . . . Barite
- Δ be . . . . . Beryl
- Δ Bi . . . . . Bismuth
- Δ bn . . . . . Bornite
- Δ bran . . . . . Brannerite
- Δ bruc . . . . . Brucite
- Δ Cd . . . . . Cadmium
- Δ calc . . . . . Calcite
- Δ carb . . . . . Carbonate
- Δ cel . . . . . Celestite
- Δ cc . . . . . Chalcocite
- Δ cp . . . . . Chalcopyrite
- Δ ch . . . . . Chert
- Δ clay . . . . . Clay
- Δ Co . . . . . Cobalt
- Δ cob . . . . . Cobaltite
- Δ cb . . . . . Columbite
- Δ Cu . . . . . Copper
- Δ cor . . . . . Corundum
- Δ dol . . . . . Dolomite
- Δ ep . . . . . Epidote
- Δ ery . . . . . Erythrite
- Δ fel . . . . . Feldspar
- Δ fl . . . . . Fluorite (fluorspar)
- Δ fu . . . . . Fuchsite
- Δ gn . . . . . Galena
- Δ gt . . . . . Garnet
- Δ goe . . . . . Goethite
- Δ Au . . . . . Gold
- Δ gf . . . . . Graphite
- Δ gl . . . . . Gravel
- Δ gyp . . . . . Gypsum
- Δ hem . . . . . Hematite
- Δ il . . . . . Ilmenite
- Δ Fe . . . . . Iron
- Δ IF . . . . . Iron Formation
- Δ jas . . . . . Jasper
- Δ kaol . . . . . Kaolinite (kaolin)
- Δ ky . . . . . Kyanite
- Δ Pb . . . . . Lead
- Δ lim . . . . . Limonite
- Δ Li . . . . . Lithium
- Δ mgst . . . . . Magnesite
- Δ mag . . . . . Magnetite
- Δ mc . . . . . Malachite
- Δ Mn . . . . . Manganese
- Δ mb . . . . . Marble
- Δ mar . . . . . Marcasite
- Δ ma . . . . . Marl
- Δ mi . . . . . Mica
- Δ ml . . . . . Millerite
- Δ mo . . . . . Molybdenite
- Δ Mo . . . . . Molybdenum
- Δ mon . . . . . Monazite
- Δ ne . . . . . Nephelite (nepheline)
- Δ nc . . . . . Niccolite
- Δ Ni . . . . . Nickel
- Δ Nb . . . . . Niobium
- Δ Pd . . . . . Palladium
- Δ peat . . . . . Peat
- Δ pent . . . . . Pentlandite
- Δ Pt . . . . . Platinum
- Δ py . . . . . Pyrite
- Δ pyl . . . . . Pyrochlore
- Δ pyrl . . . . . Pyrolusite
- Δ po . . . . . Pyrrhotite
- Δ q . . . . . Quartz
- Δ qcv . . . . . Quartz carbonate vein
- Δ ra . . . . . Radioactive minerals
- Δ RE . . . . . Rare Earths
- Δ sd . . . . . Sand
- Δ sgl . . . . . Sand and gravel
- Δ ss . . . . . Sandstone
- Δ scap . . . . . Scapolite
- Δ shee . . . . . Scheelite
- Δ serp . . . . . Serpentine
- Δ sh . . . . . Shale
- Δ sid . . . . . Siderite
- Δ si . . . . . Silica
- Δ Ag . . . . . Silver
- Δ sl . . . . . Slate
- Δ sm . . . . . Smaltite
- Δ sod . . . . . Sodalite
- Δ spec . . . . . Specularite
- Δ sp . . . . . Sphalerite
- Δ spd . . . . . Spodumene
- Δ staur . . . . . Staurolite
- Δ stib . . . . . Stibnite
- Δ st . . . . . Stone
- Δ talc . . . . . Talc
- Δ Te . . . . . Tellurium
- Δ td . . . . . Tetrahedrite
- Δ th . . . . . Thorite
- Δ Th . . . . . Thorium
- Δ thuc . . . . . Thucholite
- Δ ti . . . . . Titanite
- Δ Ti . . . . . Titanium
- Δ tour . . . . . Tourmaline
- Δ trap . . . . . Trap rock
- Δ W . . . . . Tungsten
- Δ uran . . . . . Uraninite
- Δ U . . . . . Uranium
- Δ verm . . . . . Vermiculite
- Δ Y . . . . . Yttrium
- Δ Zn . . . . . Zinc
- Δ zr . . . . . Zircon
- S . . . . . Sulphide
- cv . . . . . Covellite

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

FIELD TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
1	Beaucage Mines Ltd.	56																		
2	Geophysical Engineering and Surveys Ltd. (Lavergne Rare Earth Property)	68																		
3	Kennco Explorations (Canada) Ltd.											68[1]	68[1]							
4	Malarctic Gold Fields Ltd.			55		55		55						55[1]						

[1] No anomaly

GDIF FORM NO. 2

FIELD TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

GDIF FORM NO. 3

FIELD TOWNSHIP 6

AIRBORNE GEOPHYSICAL SURVEY DATA					
No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

GDIF FORM NO. 4

FIELD TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

GDIF FORM NO. 6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

Sudbury

GDIF FORM NO. 7

FIELD TOWNSHIP

ODM GENERAL INDEX SEARCH

Words searched:

BAIN LAKE
BEAUCAGE MINES LTD.
CHEBOGOMOG LAKE
FIELD TOWNSHIP
GRENVILLE PROVINCE
KENNCO EXPLORATIONS LTD.
LAVERGNE RARE EARTH PROPERTY
MACDONNELL, A.
MALARCTIC GOLD FIELDS LTD.
TOMIKO LAKE

Index Volume	Listing:	Report Volume	Part	Page
1	Grenville Series			
	Deposition	16	1	150
	Description	22	2	11
		23	1	236
	Distribution in Ontario	25	3	4,12,17
5	Beaucage Mines Ltd.			
	Capital; officers; operations	64	2	119
	Incorporated	63	1	56
8	Chebogomog Lake			
	Field & Grant tps., Nipissing Dist.	GR94		10
8	Chebogomog Lake Ultramafic Stock			
	Copper/nickel			
	Field & Grant tps., Nipissing Dist.	GR94		69, 72
	Petrography			
	Field & Grant tps., Nipissing Dist.	GR94		45
8	Field Tp., Nipissing Dist.			
	Geology of the Burwash area	GR116		
	Geology of the North Bay area	GR94		
8	Kennco Expl. (Canada) Ltd.			
	Field & Grant tps., Nipissing Dist.	GR94		69, 72
8	Tomiko Area, Nipissing Dist.			
	Summary of field work, 1969			
	by S. B. Lumbers	MP32		61-64
	Summary of field work, 1970			
	by S. B. Lumbers	MP43		84-88
8	Tomiko River			
	Field Tp., Nipissing Dist.	GR94		54

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D., Lumbers, S. B.	1974-75	Sudbury Cobalt Geological Compilation (revised)	O.G.S. Map 2361	1" = 4 miles
Lumbers, S. B.	1967	Burwash Sheet	P.415	1" = 2 miles
	1968	North Bay Sheet	P.381	1" = 2 miles
	1967	Tomiko Sheet	P.394	1" = 2 miles
	1971	Tomiko Area, West Half	P.678	1" = 1 mile
	1973	River Valley Area	P.844	1" = 1 mile
	1971	North Bay Area	Map 2216	1" = 2 miles
		GEOPHYSICAL MAPS		
Dept. of E.M.R.	1965	Aeromagnetic Map - Sturgeon Falls	1488G	1" = 1 mile
	1965	Aeromagnetic Map - Marten Lake	1489G	1" = 1 mile
Gupta, V. K., Wadge, D. R.	1980	Bouguer Gravity and Generalized Map, North Bay - Marten River Area	O.G.S. Map P.2297	
O.D.M. - G.S.C.	1965	Aeromagnetic Map - North Bay Sheet	7066G	1" = 4 miles
	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey Sudbury	P.1610	1:100,000
	1978	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey North Bay	P.1650	1:100,000

FIELD TOWNSHIP

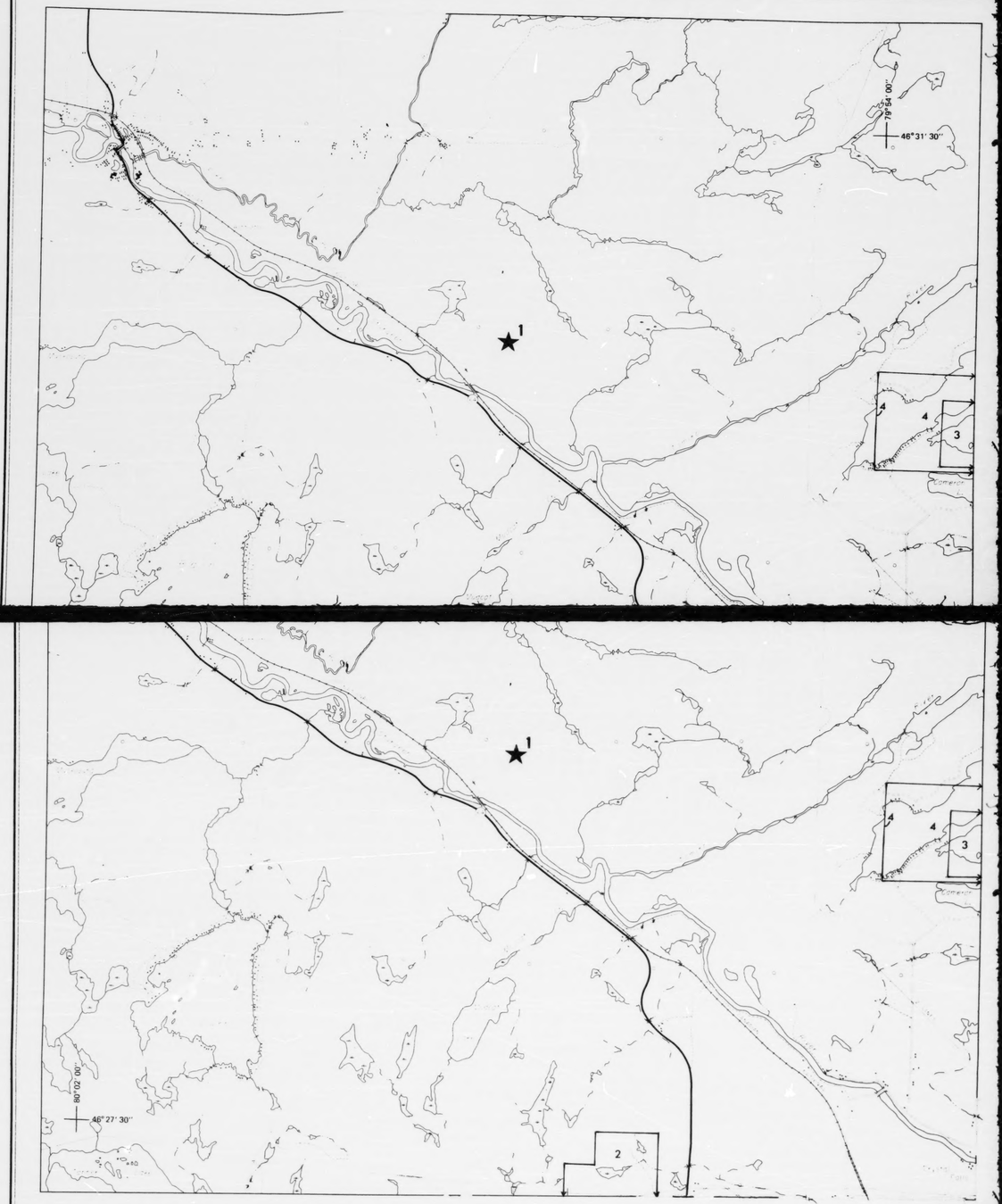
SELECTED REFERENCES

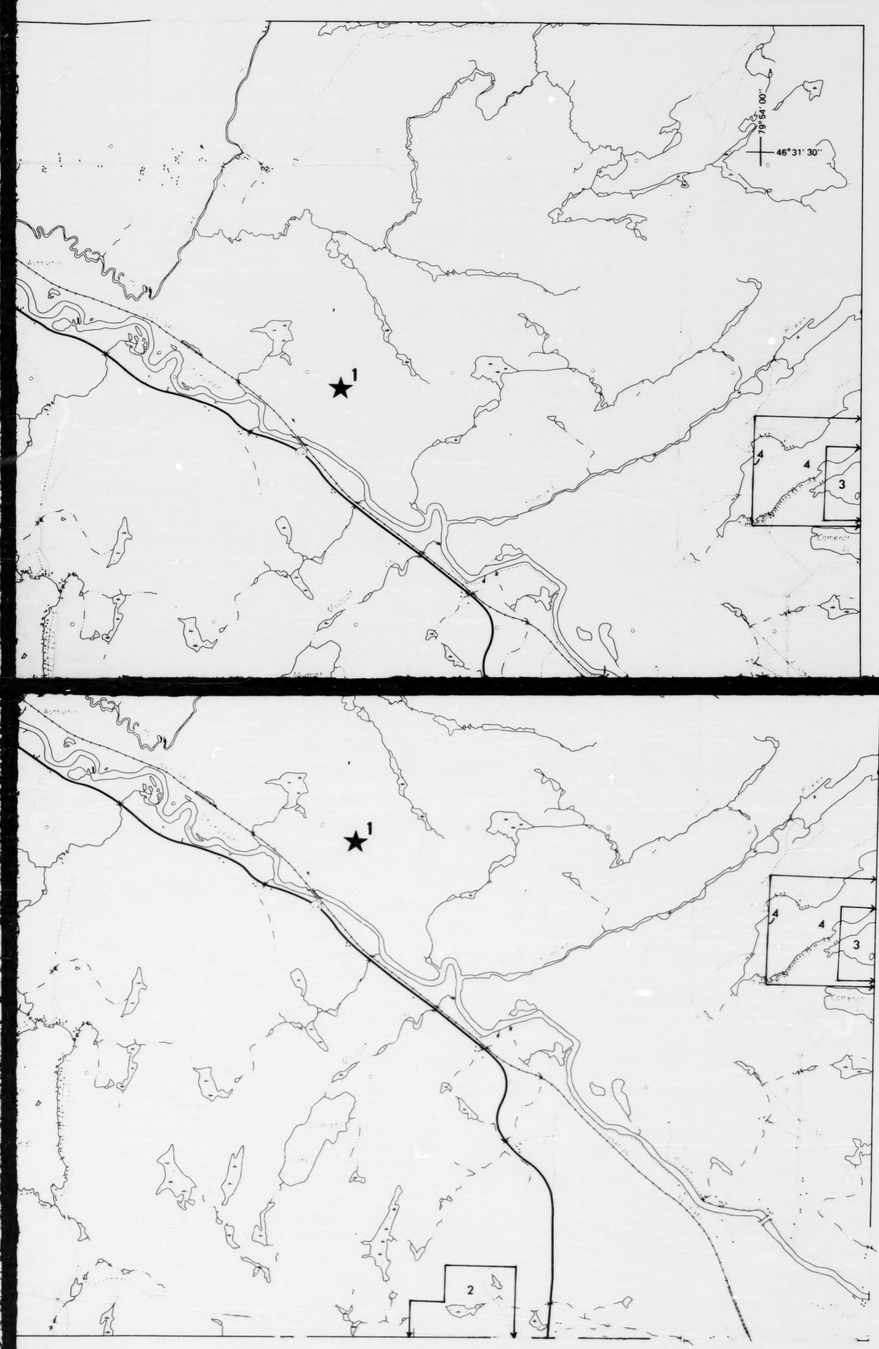
Author	Date	Title	Reference	Map Scales and/or Report Pages
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Dept. of E.M.R.	1975	Topographic Map - Glen Afton	1:50,000	
		Topographic Map - Marten Lake	1:50,000	
		Topographic Map - Sturgeon Falls	1:50,000	
		Topographic Map - Verner	1:50,000	
Gartner, J. F.	1980	N.O.E.G.T.S. Data Base Map Tomiko Area N.O.E.G.T Study 96 Tomiko Area	5040	1:100,000
		N.O.E.G.T.S. Data Base Map North Bay N.O.E.G.T. Study 101 North Bay	5041	1:100,000
		N.O.E.G.T.S. Septic Systems Capability Map, North Bay N.O.E.G.T. Study 101 North Bay	5044	1:100,000
		MINERAL POTENTIAL MAPS		
Springer, J.	1978	Ontario Mineral Potential, Southern Part of the Sudbury Sheet	P.1511	1:250,000
		GEOCHEMICAL		
		None as of June 3, 1987		
		GEOLOGICAL REPORTS AND MAPS		
Barlow, A. E.	1897	Report on the Geology and Natural Resources of the Area Included by the Nipissing and Timiskaming Map Sheets	G.S.C. AR Vol. 10, pt. 1	
Currie, K. L.	1976	The Alkaline Rocks of Canada	G.S.C. Bull. 239	

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Krogh, T. E., Davis, G. L.	1969	Old Isotopic Ages in the Northwestern Grenville Province, Ontario	G.A.C. Special Paper 5	pp. 189-192
Lumbers, S. B.	1970	Geology of the North Bay Area, Ontario	OFR 5045	
	1971	Geology of the North Bay Area	GR 94 Map 2216	1" = 2 miles
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
Boissonneau, A. N.	1968	Glacial History of Northeastern Ontario II. The Timiskaming-Algoma Area	C.J.E.S. Vol. 5	pp. 97-109
Davis, G. L. et al	?	Isotopic Investigations in Geochemistry and Geochronology. The Age of Metamorphism in the Grenville Province and the Age of the Grenville Front	Geophysical Laboratory	pp. 307-315
Fletcher, I. R., Farquhar, R. M.	1982	The Protocontinental Nature and Regional Variability of the Central Metasedimentary Belt of the Grenville Province: Lead Isotope Evidence	C.J.E.S. Vol. 19	pp. 239-253
Harding, W. D.	1930	Origin of the Grenville Gneisses; M.Sc., Queen's University	MP 2	
Krogh, T. E., Davis, G. L.	?	Geochronology of the Grenville Province	Geochronology and Geochemistry	pp. 224-230
Robinson, G.	1982	An Introduction to the Mineralogy of Ontario's Grenville Province	The Mineralogical Record	March-April





Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 421

(Map 1 of 2)

DISTRICT OF NIPPISSING

FIELD TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Miles

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Miles

EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined. See listing in text pages.

Small area exploration.

File covers entire township or area

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly Length of anomaly along flight line
- Airborne electromagnetic anomaly Location of anomaly along flight line
- Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- AARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq; Turam; JEM Crone Em - 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio frequency magnetic anomaly (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly

MISCELLANEOUS DATA

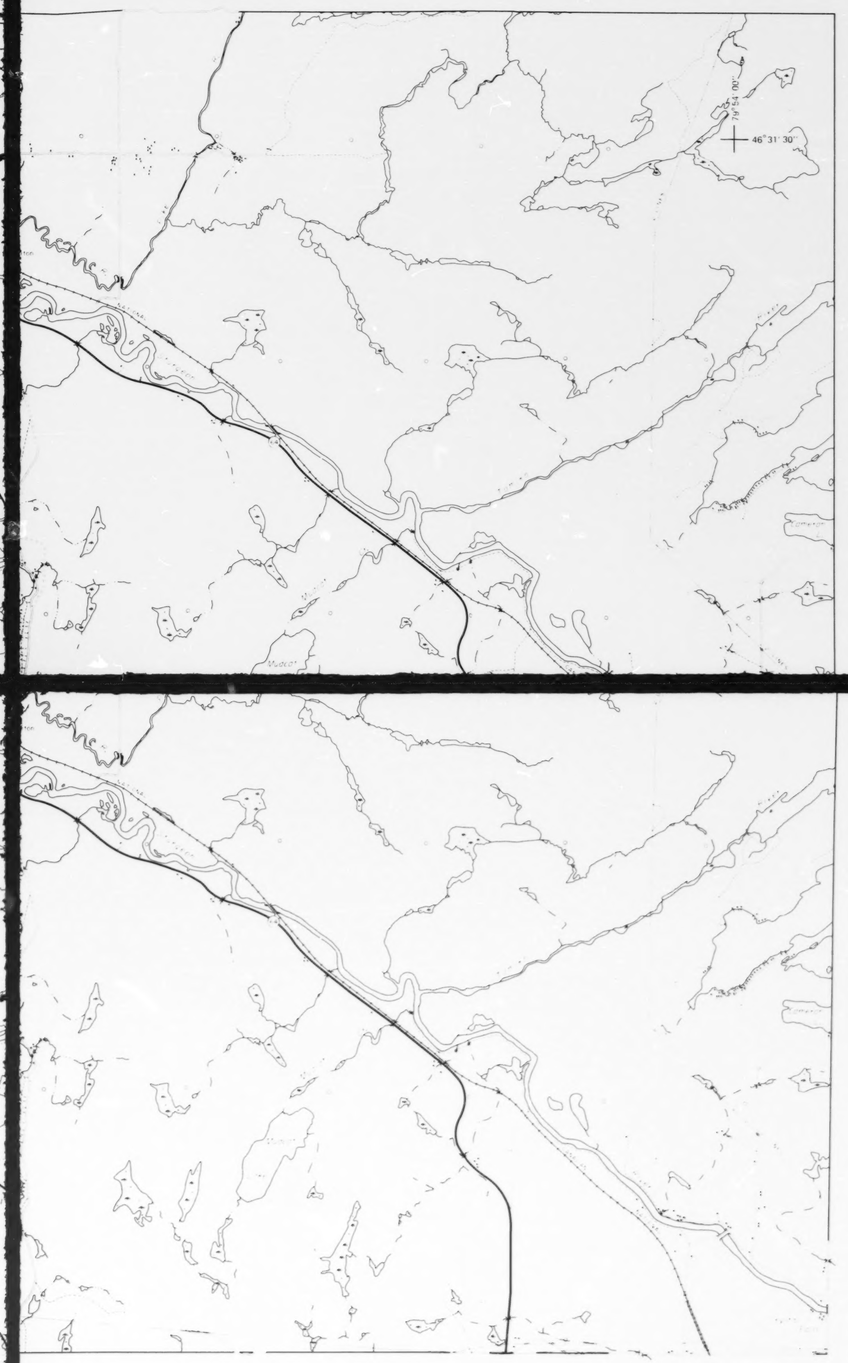
- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and or gravel pit

NOTE - Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

80° 02' 00"

46° 27' 30"

80



Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 421

(Map 2 of 2)

DISTRICT OF NIPPISSING

FIELD TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A — Mineral occurrence at surface, with reference letter
- Au A Bx — Mineral occurrence with shaft, depth given with reference letter
- Ag A — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A — Mineralized float with reference letter
- cp A

DRILLHOLE

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole: exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map, with reference number
- Reverse circulation drillhole, churn drilling, with reference number

FIELD TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

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- Reverse circulation drillhole, churn drilling, with reference number